

501 p1:27

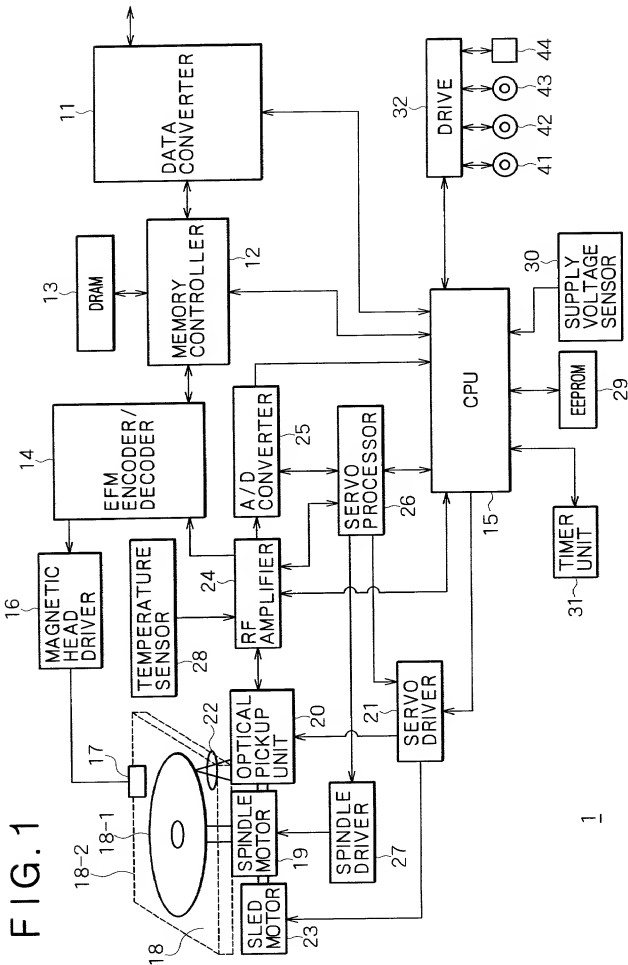
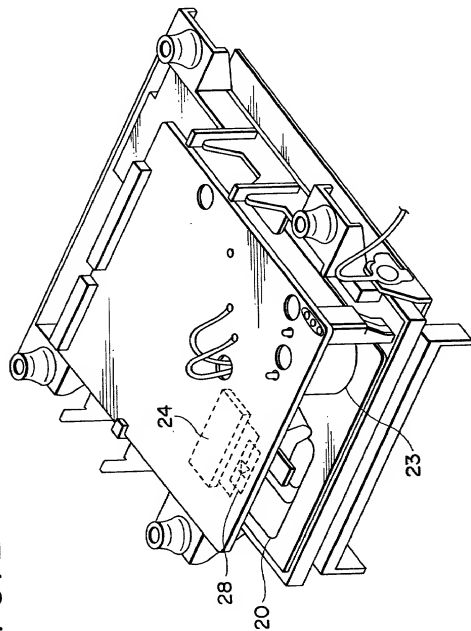


FIG. 2



ADDRESS

	FREE AREA
D6	LASER CURRENT ADJUST VALUE SETTING
D9	ACCUMULATED TIME
DD	CONTENTS CONTROL DATA AREA
F7	IEEE1394 AREA
FF	

FIG. 4

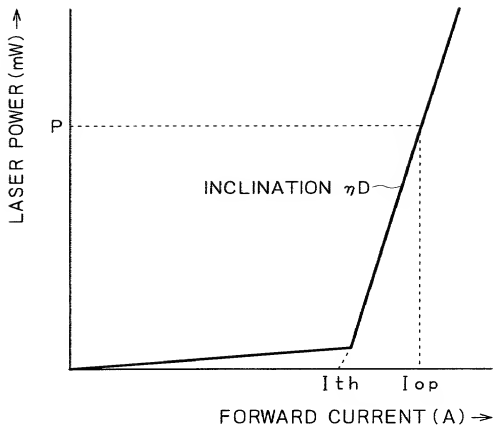
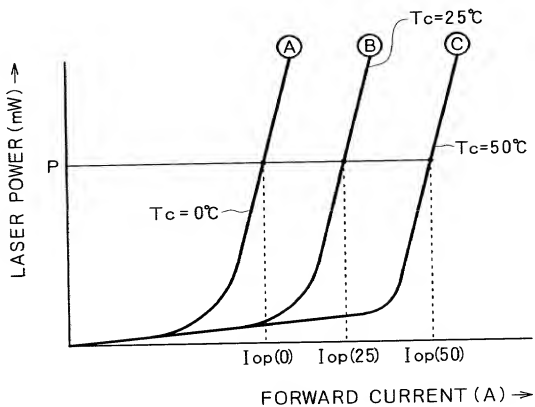


FIG. 5



[illegible]

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FIG. 7A

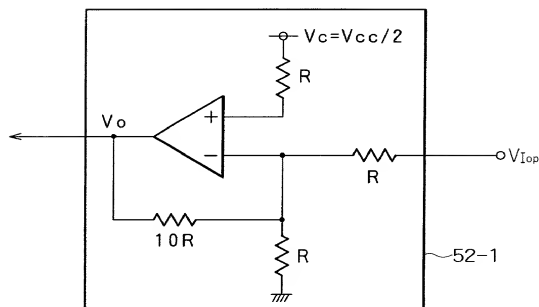


FIG. 7B

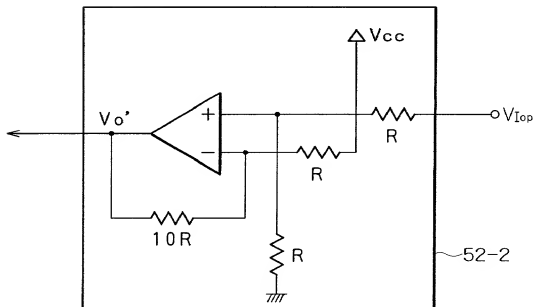


FIG. 8

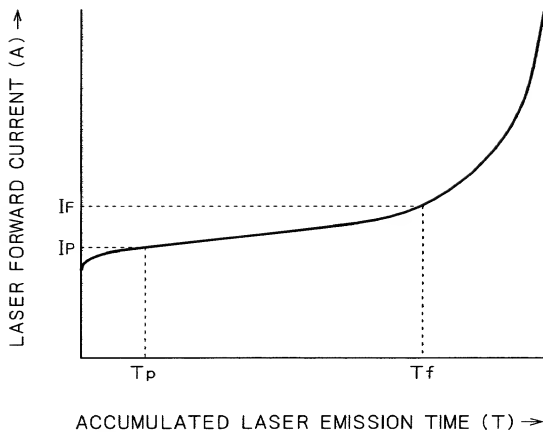


FIG. 9

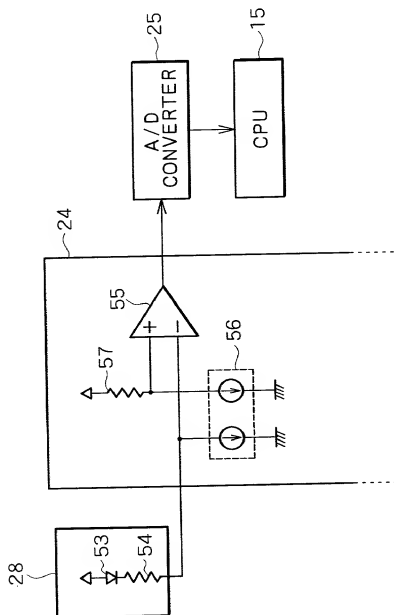


FIG.10

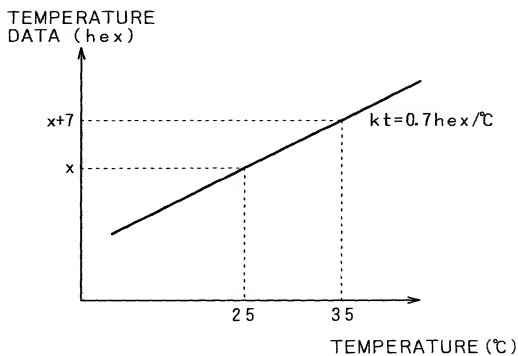


FIG. 11

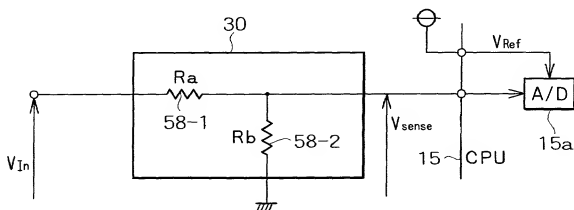
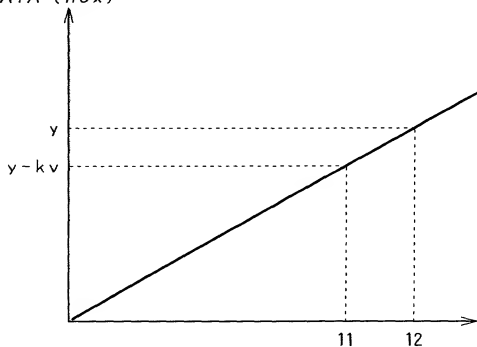


FIG. 12

SUPPLY VOLTAGE
 DATA (hex)



SUPPLY VOLTAGE (V)

FIG. 13

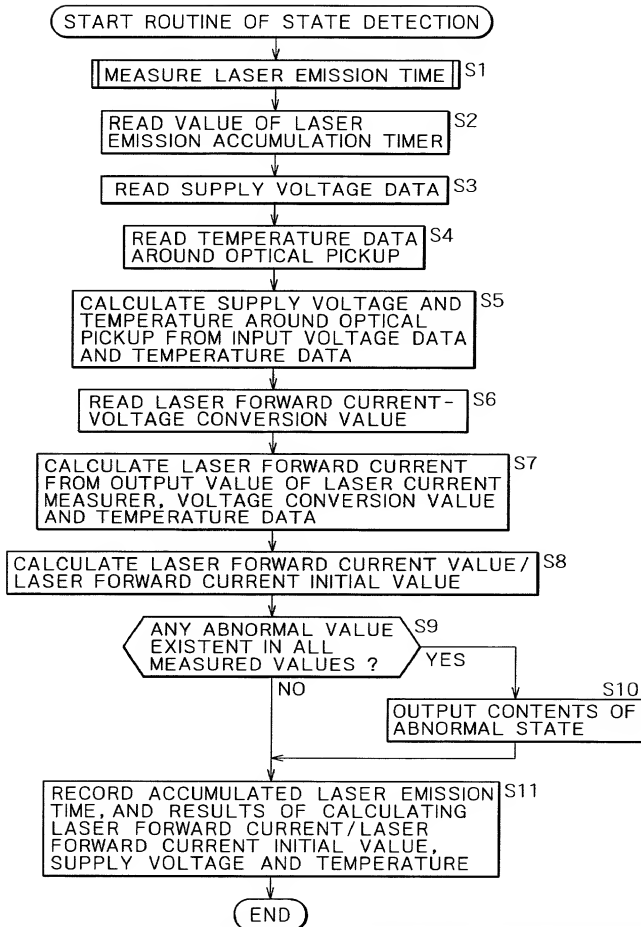


FIG. 14

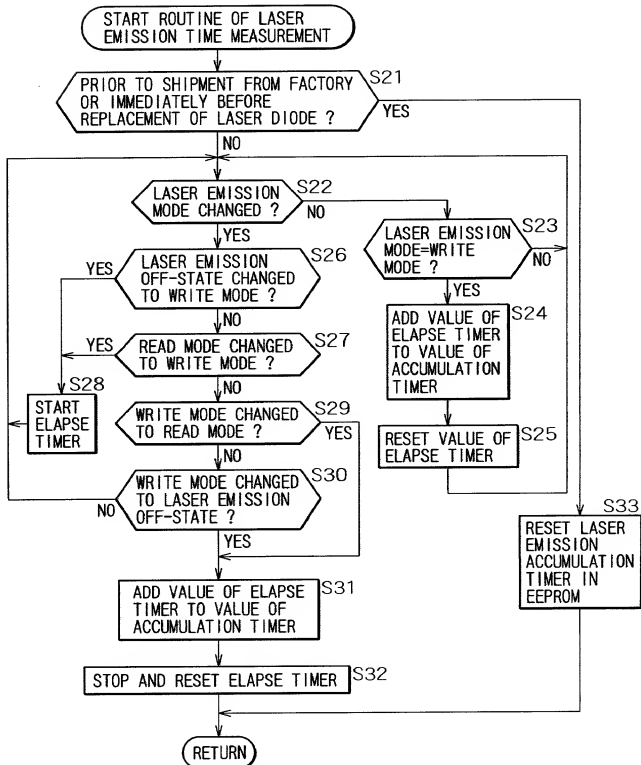


FIG. 15

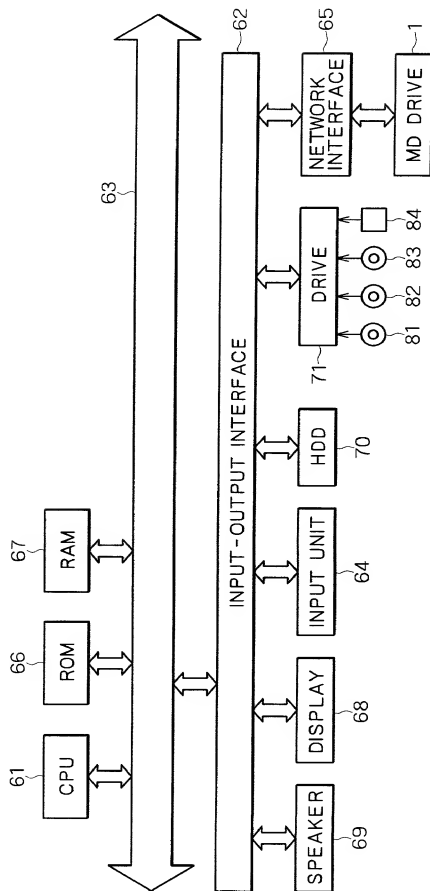


FIG. 16

PROCESSING IN MD DRIVE

ROUTINE OF LASER
EMISSION TIME
MEASUREMENT S41

READ VALUE OF
LASER EMISSION
ACCUMULATION TIMER S42

READ SUPPLY VOLTAGE DATA S43

READ TEMPERATURE DATA
AROUND OPTICAL PICKUP S44

READ MEASURED VALUE
AND VOLTAGE CONVERSION
VALUE OF LASER CURRENT S45

TRANSMIT READ DATA AND
RESPECTIVE REFERENCE
VALUES TO PERSONAL
COMPUTER S46

PROCESSING IN
PERSONAL COMPUTER

RECEIVE READ DATA AND
RESPECTIVE REFERENCE
VALUES FROM MD DRIVE S47

CALCULATE SUPPLY VOLTAGE
AND TEMPERATURE AROUND
OPTICAL PICKUP FROM
INPUT VOLTAGE DATA AND
TEMPERATURE DATA S48

CALCULATE LASER FORWARD
CURRENT FROM LASER
FORWARD CURRENT-VOLTAGE
CONVERSION VALUE AND
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CALCULATE LASER FORWARD
CURRENT VALUE/LASER FORWARD
CURRENT INITIAL VALUE S50

ANY ABNORMAL VALUE
EXISTENT IN ALL
MEASURED VALUES? S51

YES S52
OUTPUT CONTENTS
OF ABNORMAL STATE

NO
RECORD ACCUMULATED LASER EMISSION TIME,
AND RESULTS OF CALCULATING LASER FORWARD
CURRENT/LASER FORWARD CURRENT INITIAL
VALUE, SUPPLY VOLTAGE AND TEMPERATURE S53